

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

# **NOTICE OF ACCEPTANCE (NOA)**

Florida Storm Panel Supply, LLC 14475 N.W. 26<sup>th</sup> Avenue Opa Locka, Florida 33054

#### Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.035" (min.) Galvanized Steel Storm Panels Shutter

**APPROVAL DOCUMENT:** Drawing # AD12-31, titled "20 Ga. Galvanized Steel Storm Panel-LMI", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., dated March 30, 2012, signed & sealed by Yiping Wang, P.E., on January 21, 2014, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 12-0330.15 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, & E-5 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

(MIAMI-DADE COUNTY) APPROYED He GA. Klehn 05/08/2014

NOA No. 14-0221.04 Expiration Date: 01/04/2019 Approval Date: 05/08/2014 Page 1

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### 1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVALS

#### A. DRAWINGS

1. Drawing No. 95-498, Florida Storm Panels, Inc., 20 gage Storm Panels, Sheets 1, 2, 3 and 4 of 4, prepared by Knezevich & Associates, Inc., dated 02/26/97, signed and sealed by V.J. Knezevich, P.E.

# B. TESTS

- 1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of 20 gage storm panels, prepared by Construction Testing Corporation, Report No. CTC-95-032, dated September 26 through 29, 1995, signed and sealed by Christopher G. Tyson, P.E.
- 2. Test report on Large Missile Impact and Cyclic Wind Pressure Test, of 20 Gage Steel Storm Panels, prepared by Construction Testing Corporation, Report No. CTC-96-009, dated February 26 & 28, 1996, signed and sealed by Christopher G. Tyson, P.E.

# C. CALCULATIONS

- 1. Storm panel calculations and comparative analysis, Sheet 1 through 24, Knezevich and Associates, Inc., signed and sealed by V.J. Knezevich, P.E., dated October 2, 1995.
- 2. Storm panel calculations and comparative analysis, by Knezevich and Associates, Inc., signed and sealed by V.J. Knezevich, P.E., dated 06/14/96 and 02/26/97.

# D. MATERIAL CERTIFICATION

- 1. Mill Certified Inspection Report, dated 5/26/95, for Hot Dipped Galvanized Steel, ASTM A446 by Productor de Acero Laktbal, C.A., with chemical composition and physical properties.
- 2. Tensile Test Reports from QC Metallurgical, Inc., Job No. 5IM-2162 dated 09/26/95 for galvanized steel, tested per ASTM E8-93, signed and sealed by James W. Roese, P.E.
- 3. Tensile Test Reports from QC Metallurgical, Inc., Job No. 6CM-719 dated 03/25/96 for galvanized steel, tested per ASTM E8-93, signed and sealed by Frank Grate, P.E.

# 2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0105.03

#### A. DRAWINGS

1. None.

# B. TESTS

1. None.

# C. CALCULATIONS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

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#### D. MATERIAL CERTIFICATIONS

1. None.

#### 3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0804.01

#### A. DRAWINGS

1. Drawing No. 99-097, Florida Storm Panels, Inc., titled "20 Ga. Galvanized Steel Storm Panel", Sheets 1, 2, 3 and 4 of 4, prepared by Knezevich & Associates, Inc., dated 07/19/99, last revision #2 dated 12/23/99, signed and sealed by V.J. Knezevich, P.E.

# B. TESTS

1. None.

# C. CALCULATIONS

- 1. Anchor calculations, sheets 1 through 28, prepared by Knezevich and Associates, Inc., signed and sealed by V.J. Knezevich, P.E., dated July 21, 1999.
- 2. Revised anchor calculations, sheets 1 through 8, prepared by Knezevich and Associates, Inc., signed and sealed by V.J. Knezevich, P.E., dated December 29, 1999.

#### D. MATERIAL CERTIFICATIONS

1. None.

# 4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0531.02

#### A. DRAWINGS

1. Drawing No. 99-097, titled "20 Ga. Galvanized Steel Storm Panel", sheets 1 through 4 of 4, prepared by Knezevich & Associates, Inc., dated July 19, 1999, last revision #3 dated May 22, 2002, signed and sealed by V.J. Knezevich, P.E.

#### B. TESTS

1. None.

# C. CALCULATIONS

1. None.

# D. MATERIAL CERTIFICATIONS

1. None.

# 5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0826.07

#### A. DRAWINGS

I. None.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

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- B. TESTS
  - 1. None.
- C. CALCULATIONS
  - 1. None.
- D. MATERIAL CERTIFICATIONS
  - 1. None.
- 6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #06-0110.03
- A. DRAWINGS
  - 1. Drawing No. 05-536, titled "20 Ga. Galvanized Steel Storm Panel", sheets 1 through 4 of 4, prepared by Thornton-Tomasetti Group, dated January 06, 2006, last revision #0 dated January 06, 2006, signed & sealed by J.W. Knezevich, P.E.
- B. TESTS
  - 1. None.
- C. CALCULATIONS
  - 1. **Revised** Anchor Calculations and details for 20 Ga. Galvanized steel Storm Panels, dated December 20, 2005, pages 1 through 24 of 24, prepared by Thornton-Tomasetti Group, signed and sealed by J. W. Knezevich, P.E.
- D. QUALITY ASSURANCE
  - 1. By Miami-Dade County Building Code Compliance Office.
- E. MATERIAL CERTIFICATIONS
  - 1. None.
- 7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0817.02
- A. DRAWINGS
  - 1. None.
- B. TESTS
  - 1. None.
- C. CALCULATIONS
  - 1. None.
- D. OUALITY ASSURANCE
  - 1. By Miami-Dade County Building Code Compliance Office.
- E. MATERIAL CERTIFICATIONS
  - 1. None.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

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# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

# 8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0114.03

#### A. DRAWINGS

1. None.

# B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of 20 gage storm panels, prepared by Construction Testing Corporation, Report No. CTC-08-018, dated December 21, 2008, signed and sealed by Yamil G. Kuri, P.E.

#### C. CALCULATIONS

1. None.

#### D. **QUALITY ASSURANCE**

1. By Miami-Dade County Building Code Compliance Office.

# E. MATERIAL CERTIFICATIONS

1. None.

#### 9. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #12-0330,15

#### A. DRAWINGS

1. Drawing # AD12-31, titled "20 Ga. Galvanized Steel Storm Panel-LMI", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., dated March 30, 2012, signed & sealed by Yiping Wang, P.E.

# B. TESTS

1. None.

# C. CALCULATIONS

1. None.

# D. QUALITY ASSURANCE

 By Miami-Dade County Department of Permitting, Environment, and regulatory Affairs (PERA).

# E. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

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# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

# 10. NEW EVIDENCE SUBMITTED

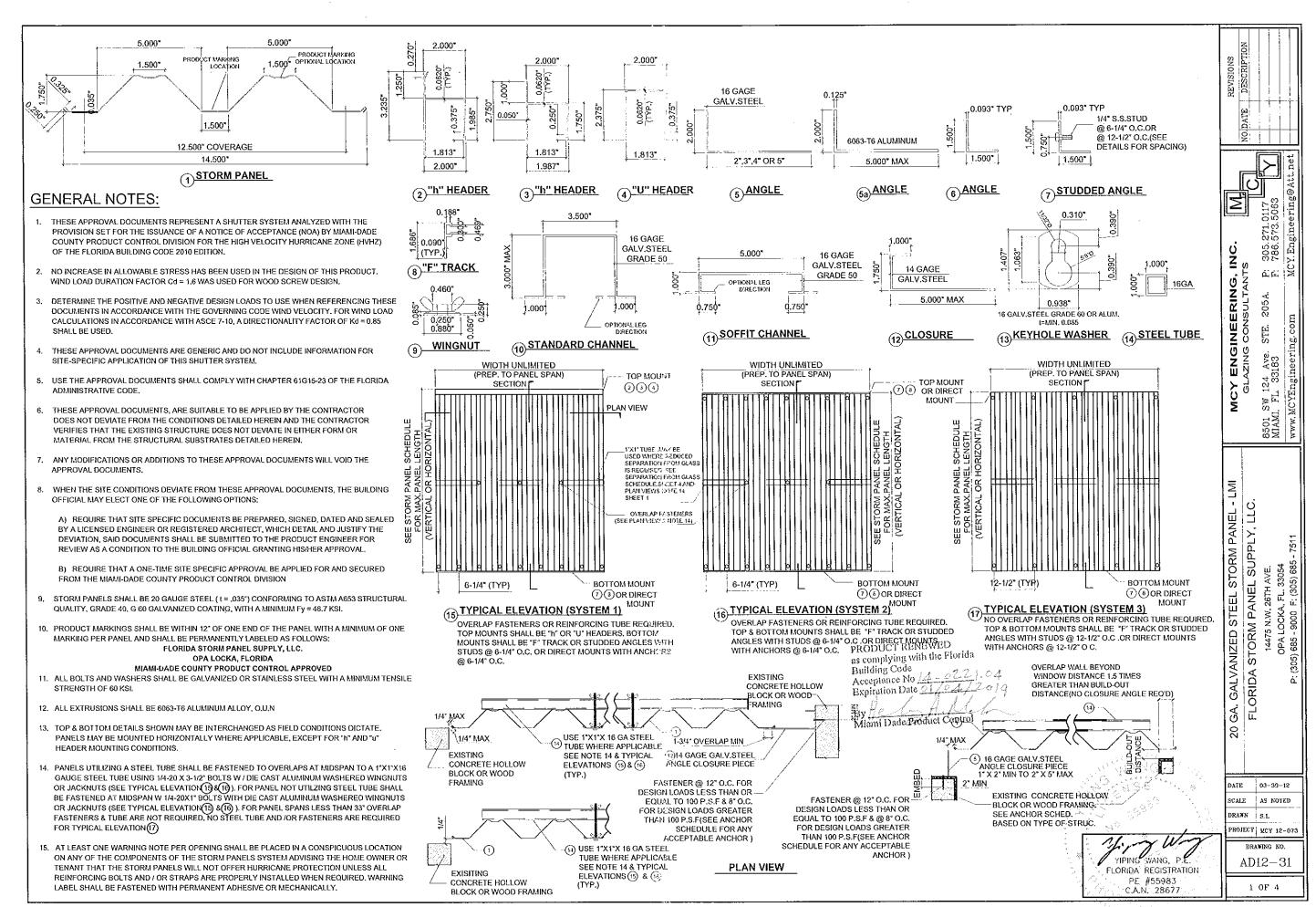
- A. DRAWINGS
  - 1. Drawing # AD12-31, titled "20 Ga. Galvanized Steel Storm Panel-LMI", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., dated March 30, 2012, signed & sealed by Yiping Wang, P.E., on January 21, 2014.
- B. TESTS

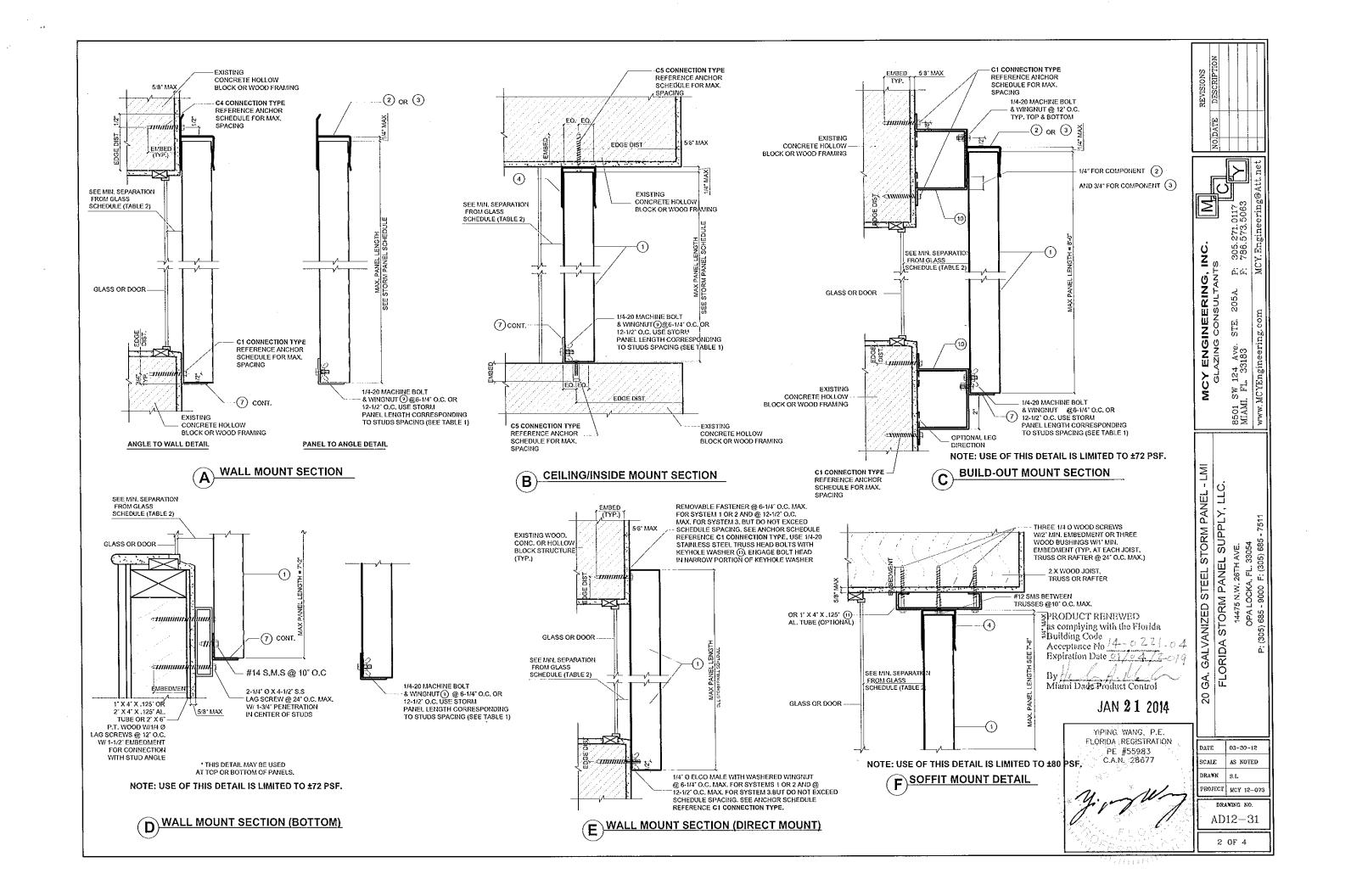
1. None.

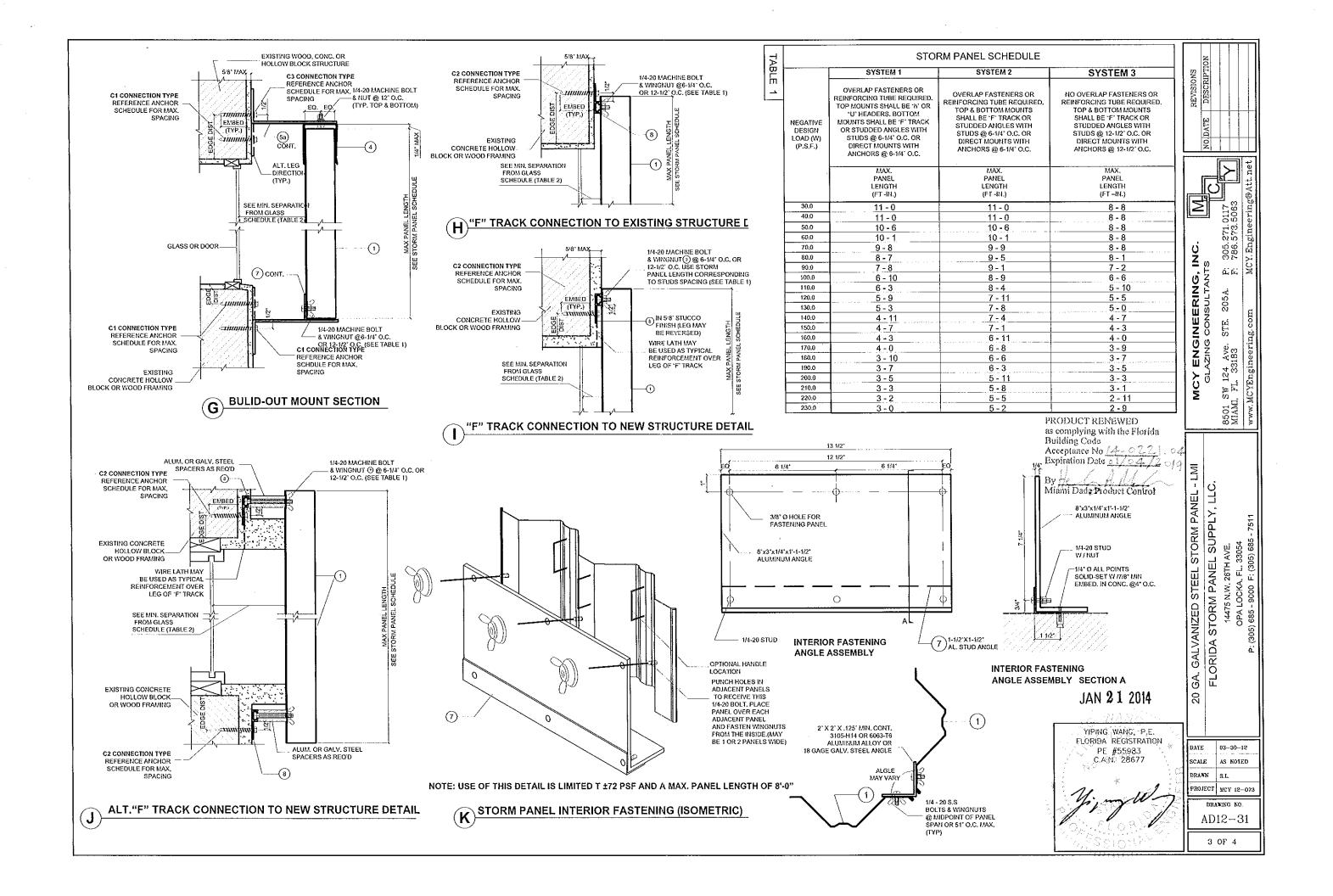
- C. CALCULATIONS
  - 1. None.
- D. QUALITY ASSURANCE
  - 1. By Miami-Dade County Department of Regulatory and Economic Resources.
- E. MATERIAL CERTIFICATIONS
  - 1. None.

Heimy A. Makar, P.E., M.S. Product Control Unit Supervisor NOA No. 14-0221.04

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	ANCHOR SCHEDULE							
<u> </u>		FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS  LOAD MIN. 2" EDGE DISTANCE MIN. 3" EDGE DISTANCE						
14	}	(W)	SPANS UP TO	SPANS UP TO	SPANS UP TO	SPANS UP TO	SPANS UP TO	SPANS UP TO
STRUC		P.S.F.	5'-6"	8'-6"	11'-0''	5'-6''	8'-6"	11'-0"
S	ANCHOR TYPE	MAX.	(SEE NOTE 1)	(SEE NOTE 1)	(SEE NOTE 1)	(SEE NOTE 1)	(See Note 1)	(SEE NOTE 1)
EXIST.		(SEE	CONNECTION TYPE (SEE NOTE 3)	CONNECTION TYPE (SEE NOTE 3)	(SER NOTE 3)	CONNECTION TYPE (SEE NOTE 3)	CONNECTION TYPE (SER NOTE 3)	CONNECTION TYPE (SEE NOTE 3)
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	1/5/2-TAN, EABERNENS	72.0	12.5 12.5 12.5 10 10	12.5 12.5 12.5 5 7	12.5 12.5 9 3 5	12.5 12.5 12.5 11 12.5	12.5 12.5 12.5 5 8	12.5 12.5 9 4 6.25
l	1-354 SHM CHOEOMEN	92.0	12.5 12.5 12.5 7 8	12.5 12.5 9 3 5	12.5 8 5 4	12.5 12.5 12.5 7 10	12.5 12.5 9 4 6.29	12.5 8 5 5
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	* IN THE PROPERTY OF THE PARTY	48.0	\ <i>i\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>		V/X/X/X/X//	12.5 12.5 12.5 12.5 12.5		12 5 12 5 12 5 6 29 9
1	* AMMINIME	62.0			V/X/4X/X//	12.5 12.5 12.5 12.5 12.5		12.5 12.5 12.5 4 7
	FEMALE "PANELMATE" W.	72.0		VX44X4	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	12.5 12.5 12.5 10 12.5	E	12.512.5 9 3 6.25 12.5 7 4 5 5
	FEMALE PANEL MALE WA 1/4-20 MACHINE SCREW (MIN. 3,000 P.S.L CONCRETE)	92.0 200.0		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	X+X+X+X/X/+	12.5 12.5 12.5 7 10	· · · · · · · · · · · · · · · · · · ·	12.5 7 4 5
CONCRETE	IMIN. 3,000 P.S.I. CONCRETE)	48.0	12.512.512.512.512.5	12.512.512.5 7 11	12.512.512.5 5 9	12,512,512,512,5		
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	SET ANCHOR WZ 7/8* EKBED & 1/4-20 STAINLESS STEEL MACHINE SCREW	92.0	12.5 12.5 12.5 5 9	12.5 12.5 7 // 6	10 6 3 4	12.5 12.5 12.5 7 12	12.512.5 9 9 7	12.5 7 4 6
1	(MIN, 9,000 P.S.L. CONCRETE)	200.0	9 4 3 // 4	8 4 // 3	8 4 // 3	11 6.25 4 // 5	10 5 3 5	10 5 3 5
	F	48.0	12.5 12.5 12.5 12.5 12.5	12.512.512.56.25 10		12.5 12.5 12.5 12.5 12.5	12.5 12.5 12.5 8 12.5	12.5 12.5 12.5 5 10
1		62.0	12.512.5 12.5 9 12.5	12.5 12.5 12.5 4 8	12,5 12,5 11 3 6,2	12.5 12.5 12.5 12 12.5	12.5 12.5 12.5 5 10	12.512.512.5 4 7
	1/4" ELCO TAPCON WY	72.0	12.5 12.5 12.5 7 10	12.5 12.5 12.5 9 6.2	5 11 11 5.25 5	12.512.512.5 9 12.5		12,512,51 8 3 6.25
1		92.0	12.512.512.5 5 8	11 11 6.29 5	9 5 3 4	12.5 12.5 12.5 6,25 10	12.5 12.5 6 3 6.25	11 7 4 5
	(MRN. 3,320 P.S.L. CONCRETE)		12,5   2.5   12,5   7   7	7 3 // 3	7 7 7 3	10 5 3 4	9 4 3 // 4	9 4 3 4 6 8 8 4 4
		48.0 62.0	11 11 11 4 5	9 9 9 3 4	7 7 7 3 5 5 5 7	12.5 12.5 12.5 9 9 12.5 12.5 12.5 4 7	11 11 11 3 5	5.256.29 5 3
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-	FEMALE PANELMATE" W	72.0			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	12.5 12.5 12.5 5 7	10 10 10 4	7 7 4 3
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Ŭ	1 11 11	62.0	12.512.512.5 9 9	12.5 12.5 12.5 4 6	12.5 12.5 10 3 4	12.5 12.5 12.5 10 12.1 12.5 12.5 12.5 7 11	12.512.512.5 4 B	12.512.5 11 3 6.25
2	1/4" ALL POINTS SOLIO- SET ANCHOR WY 7/4" EMBEO & 1/4-20 STAINES STEEL MACHINE SCREW	72.0	12.512.512.56.25 8 12.512.512.5 4 6.2	10 10 6 4	10 10 6 4	12.5   2.5   12.5   5   8	The second secon	11 11 6.25 5
15	STEEL MACHINE SCREW	200.0	· • · · · · · · · · · · · · · · · · · ·	7 3 ////	7 3 7/1/	8 4 3 4	7 3 77 3	13/1/3
HOLLOW	- Thilliannanalististes	48.0	12,512,512,5 8 9	10 10 10 3 5	7 7 7 7 4	12.5 12.5 12.5 10 11		9 9 9 5
0		62.0		777/1	<del>ヿ゠゠゚゠゠゚ヺ゚゚゚ゟ゠</del>	12.512.512.5 5 9	9 9 9 // 5	7 7 5.25 4
	1/470 ELCO TAPCON W/	72.0		6.256.256.25// 3	- <del>                                     </del>	12.5 12.5 12.5 4 7	8 8 8 4	6.256.25 3 3
1	1-1/2" MIN, EMBEOMENT	92.0	8 8 8 // 4	5 5 // 3		10 10 10 6		5 3 //// 3
		200.0	3 /////////	3 (/)(/)////////////////////////////////	3 /////////	4 1/1///////	4/////////	11/1/1/1/1/

	FASTENER MAXIMUM SPACI	ANC								nes.	(c)W	100	nt A	N/S	4002	ić	
	PASTETIER MAAIMVIN SPACE	LÖAD	1163)	net	(4) ii.j		****	••••			,	4.50	NO	715	2.LM	13	
STRUC	ANCHOR TYPE	(W)	SPANS UP TO					SPANS UP TO					SPANS UP TO				
E		P.S.F. MAX.	5'-6"				8'-6"					11'-0" (SEE NOTE 1)					
		(SEE	(SEE NOTE 1) CONNECTION TYPE				(SEE NOTE 1) CONNECTION TYPE					CONNECTION TYPE					
EXIST.		NOTE		(SEE	NO	(E 3)			(SEE	NO	E 3)			(SEE	NO	(E 3)	į
		1)	C1	C2	¢3	Ç4,	ÇŞ	<u>C</u> 1	C2	<b>C3</b>		-	C1	<u>C2</u>	<u>C3</u>	<u>C4</u>	C
	String R	48.0	11	11	11	11	11	,11	11	11	11	10	11	11	11	8	1
	1/4"P. MIN, 3" LONG.	62.0 72.0	11	11	11	11	11	11	11	11	8	6	71	11	11	5	6
^	EMBED SHEAR PARALLEL	92.0	<del>     </del>	11	11	9	10	11	11	11	5	5	11	10	6	cturus	1
5	OU LEVEL 10 MOOD BUNIN	200.0	11	8	5	3	3	11	7	4,	3	3	71	7	4	3	1
WOOD	* JAHAR WESHING 7/16" & WOOD BUSHING 1/4-20 STAIN LESS STEEL	48.0	6,25	6.25	6.25	5.25		5.25	6.25	\$.25	3		6,25	6.25	5.25		$\mathbb{Z}$
		62.0	6.25	6.25	6,25	5		5.25	5.29	\$.29			5.25	6.25	6		Z
		72.0			6.25	b->-		5.25	6.25	6.25			6	6	3		
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T A					M GLASS SCHEDU	ILE I MIN. SEPARATION	ENGINEERING,	CONSULTANT	STE. 205A.	g.com	
B	POSITIVE	MAX.			ATION FOR LESS THAN 30' RADE (IN.)	FOR INSTALLATIONS GREATER THAN 30'		SLAZING	124 Ave.	gineerin	
2	DESIGN LOAD (W) (P.S.F.)	PANEL LENGTH (FT, - IN.)	SYSTEM MIDSPAN TUBE		SYSTEM 3  NO MIDSPAN BOLTS OR TUBE REQUIRED	ABOVE GRADE (IN.) ALL CONDITIONS	MCY	O	8501 SW 12 MIAMI, FL.	www.MCYEngineering.com	
	40,0	5 - 7 8 - 5 8 - 8 11 - 0	2-1/4 2-1/4 3	2-3/8 2-3/8 3	3-1/2 3-1/2 3-1/2 N/A	1-1/8 1-5/8 1-3/4 2-7/8	.   5				
	50,0	5 - 7 8 - 5 8 - 8 10 - 6	2-1/4 2-1/4 3 3	2-3/8 2-3/8 3	3-1/2 3-1/2 3-1/2 N/A	1-1/4 1-7/8 1-7/8	ANEL - LMI	Y, LLC.			
	60.0	5 - 7 8 - 5 6 - 8	2-1/4 2-1/4 3	2-3/8 2-3/8 3 3	3-1/2 3-1/2 3-1/2 N/A	1-1/4 2 2-1/8 3	STORM PANEL	SUPPLY,	1 AVE. 33054	F: (305) 685 - 7511	
	70.0	5-7 8-5 8-8 9-9	2-1/4 2-1/4 3 3	2-3/8 2-3/8 3 3	3-1/2 3-1/2 3-1/2 N/A	1-174 2-178 2-174 3	STEEL	STORM PANEL	14475 N.W. 26TH AVE. OPA I OCKA, FL. 33054	9000 F: (30	
	N/A	DESIGNA	TES CONDI	TIONS WHI	CH ARE NOT ACCEP	TABLE USES.	A. GALVANIZED	LORIDA STORI	- C	P: (305) 685 -	

- SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1.
- ENTER ANCHOR SCHEDULE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
- 3. SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
- EXISTING STRUCTURE MAY BE CONCRETE HOLLOW BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- 6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.

- 8,
- MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE A WAFER HEAD (SIDEWALK BOLT), U.O.N.
- 10. DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.

  11. \* DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGHUT.

JAN 21 2014

PRODUCT RENEWED as complying with the Florida YIPING WANG, P.E. FLORIDA REGISTRATION Acceptance No 4 - 622 PE #55983 C.A.N. 28677 Expiration Date 01/04/2013

Miami Dade Product Control

Building Code

DATE	03-30-12
SCALE	AS NOTED
DRAWN	S.L.
PROJECT	MCY 12-073
DRA	NING NO.

GA. GALVA FLORIDA (

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305.271.0117 786.573.5063

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